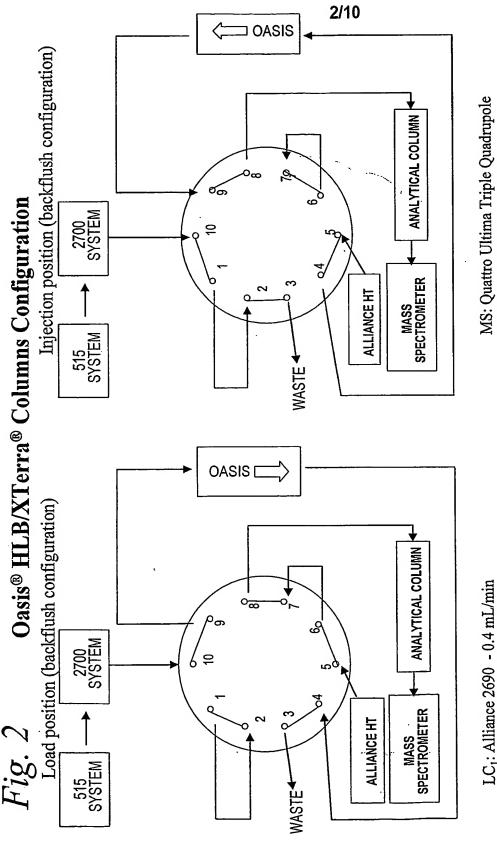


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MS: Quattro Ultima Triple Quadrupole Source: Electrospray positive Source temperature: 150 °C Desolvation gas: 600 L/hr

Cone Voltage: 20 volts Gas cell: 2.0e-3 mbar

Eluting mobile phase: 1 minute gradient 5% ACN to 95% ACN

Loading mobile phase: 100 % water

LC₂: Waters 515 - 4.0 mL/min

Switching valve: Rheodyne LabPro 10 ports, 2 position

Extraction column temperature: room temperature Eluting mobile phase additive: 0.5 % Formic acid

Collision energy: 20

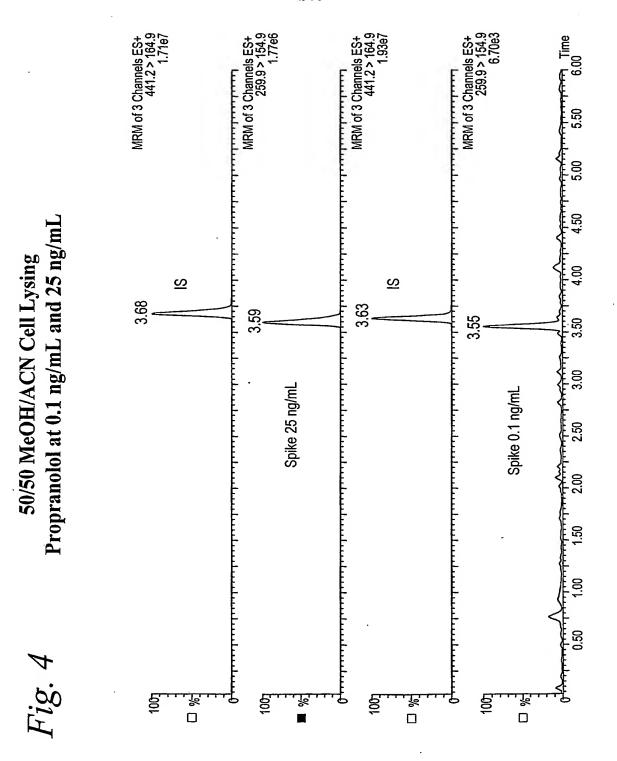
Fig. 3

HPLC Gradient and Wash Conditions

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Function	المواجعة الما		Loading with 100 % H ₂ O	Elution with 1 min gradient	Return to loading position	
Valve position			position 1	position 2	position 1	
HPLC gradient Flow 0.4 mL/min	В	95	95	5	95 95	
HIP Flo	A	S.	2	95 95	w w	
Time		0.0	0.5	1.5 4.40	4.50 6.0	

A - Acetonitrile + 0.5 % Formic Acid B - Water + 0.5 % Formic Acid

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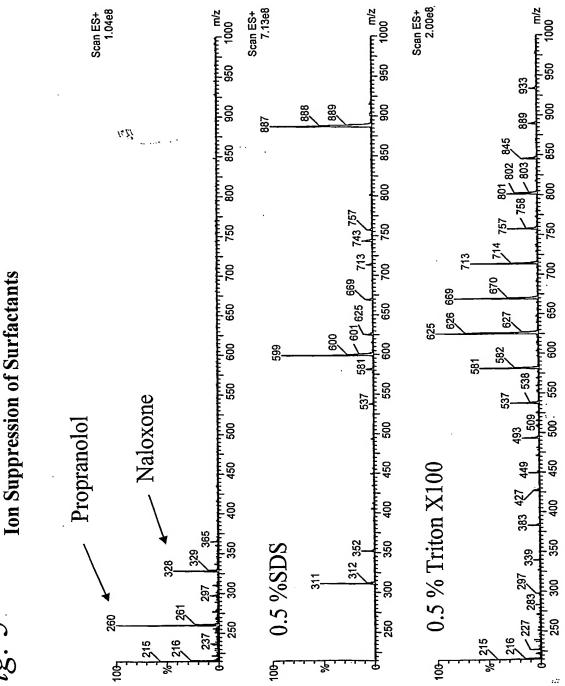
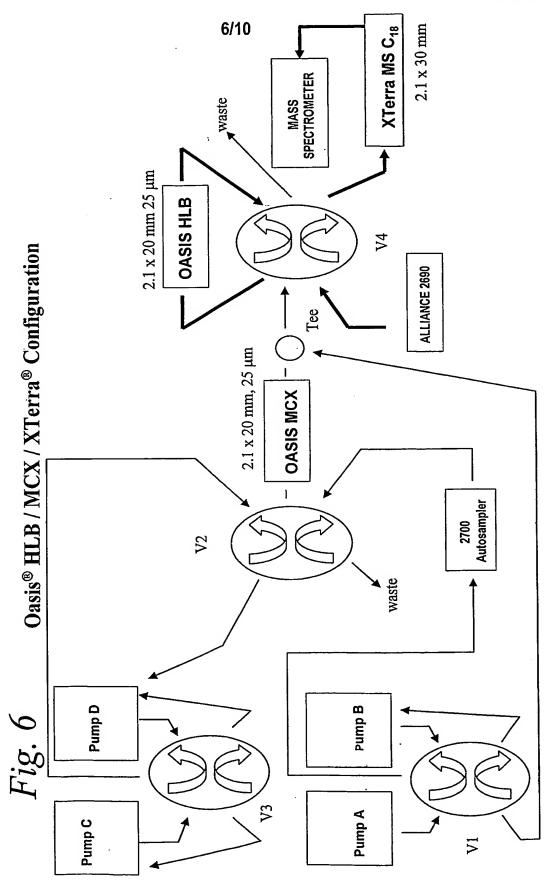


Fig. 5



Pump B: 100 % Methanol Pump D: 100 % Methanol + 2 % NH_4OH

Pump A: 100 % water + 2 % NH_4OH Pump C: 100 % Water + 4 % Formic Acid

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Function	Toad 100 % H,O bH 11	Wash 100 % H,O pH 2	Wash (see chromatograms)	Elution of MCX onto HLB (pH 11)	Elution of HLB onto Xterra (pH 3)				Reset to starting position	
Valve Position V1, V2, V3, V4	2 - 2 - 2 - 2	1-1-2-2	1 - 2 - 2 - 2	1 - 1 - 1 - 2	1-1-1-1				2 - 2 - 2 - 2	
HPLC gradient Flow 0.4 mL/min	B 95	95	95	95	95	5	S	95	95	95
HPI Flow	A 5	5	5	5	S	95	95	v	ro.	S.
Time (min)	0.0	0.	2.0	3.0	4.0	5.0	0.	7.5	8.0	0.

A - Acetonitrile + 0.5 % Formic Acid B - Water + 0.5 % Formic Acid

